

PATENT ABSTRACTS OF JAPAN

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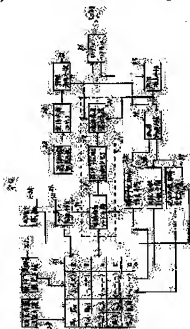
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(54) COMMUNICATION EQUIPMENT



(57)Abstract:

PROBLEM TO BE SOLVED: To improve the efficiency of communication by the communication equipment that makes a call sequentially to plural terminals connecting to a telephone line to make communication.

SOLUTION: Relating to this communication equipment, when a table monitor means 26 detects it that a current date and time passes a call schedule date and time (y, d, t) set in a memory table 21, a call processing section 27 calls public telephone sets which have less failure numbers R with priority among public telephone sets to which a call schedule date and time before the current date and time is set. In the case that any reply is made from the public telephone sets in response to the call and the communication is finished, the call schedule date and time of the public telephone sets is deleted from the memory table 21. In the case that no reply comes from the public telephone set in response to the call and no communication is available because occurrence of a communication error, a failure number R of the public telephone set in the memory table 21 is incremented by one and the call schedule date and time is changed.

[Detailed Description of the Invention]

[0001]

[Field of the Invention]

The present invention relates to communication equipment that makes a call to plural terminals connecting to a telephone line network to make communication.

[0017]

The present invention intends to provide communication equipment which can solve the problems and efficiently make communication with terminals by efficiently using automatic re-calling processing.

[0018]

[Means for Solving the Problems]

In order to achieve the above-mentioned object, the communication equipment of the present invention is communication equipment connected to a telephone line via a modem for making a call to plural terminals connected to the telephone line to make communication, including: memory for storing telephone numbers of the plural terminals, call schedule dates and times, and communication failure numbers; terminal information setting means for setting telephone numbers of terminals in the memory; call schedule date and time setting means for setting call schedule dates and times of the terminals in the memory; a clock circuit for outputting the current date and time; calling means for reading out a telephone number of a terminal whose call schedule date and time is before the current date and time among the terminals whose call schedule dates and times are set in the memory in a predetermined order and outputting them to the telephone line via the modem; reply detecting means for detecting a reply from a terminal of a telephone number outputted from the calling means; information communication means for making communication of information with the terminal which replied when a reply is detected by the reply detecting means; success/failure determination means for determining whether communication with a terminal of a telephone number outputted from the calling means to a telephone line succeeded or failed; call schedule date and time deleting means for deleting call schedule date and time of a terminal which is determined that it succeeded in communication by the success/failure determination means from the memory; failure number counting means for counting the failure number of a terminal which is determined that it failed in communication by the success/failure determination means and recording the counted result to the memory; and schedule date and time changing means for changing call schedule date and time of a terminal which is determined that it failed in communication by the success/failure determination means to date and time which is a date and time of when the communication failed added with a predetermined retry interval, wherein the calling means is adapted to output telephone numbers of terminals which have less failure numbers among terminals whose schedule call dates and times are before the current date and time with priority to the telephone line.

[0059]

For this reason, in this embodiment, as described above, a retry interval ΔT is increased from an initial time period satisfying the regulation as increase of the number of retry times, so that the interval of automated successive calls to the same terminal is controlled..